

ANIONIC FUNCTIONAL PROMOTER AND CHARGE CONTROL AGENT WITH IMPROVED WET TO DRY TENSILE STRENGTH RATIO

Publication number: WO2004072376

Publication date: 2004-08-26

Inventor: RYAN MICHAEL (US); BREVARD WILLIAM (US)

Applicant: BAYER CHEMICALS CORP (US); RYAN MICHAEL (US); BREVARD WILLIAM (US)

Classification:

- international: *D21H23/76; D21H21/18; D21H23/00; D21H21/14; (IPC1-7): D21H17/72; D21H23/76; D21H17/29; D21H17/42; D21H17/55; D21H21/20; D21H21/24*

- European: D21H17/72; D21H23/76B

Application number: WO2004US03412 20040206

Priority number(s): US20030445970P 20030207

Also published as:



EP1595026 (A1)
MXPA05008292 (A)
EP1595026 (A0)
CN1754022 (A)
CA2514742 (A1)

more >>

Cited documents:



WO2004001129
US6264791
US3844880
US5750489
US4517285

more >>

Report a data error here

Abstract of WO2004072376

The invention relates to a composition comprising (a) a functional promoter comprising a water-soluble anionic polymer having a molecular weight of at least about 50,000 daltons and a molecular weight charge index value of at least about 10,000; (b) a cationic surfactant component; such that when the composition treats a fibrous substrate, in conjunction with a cationic strength agent, the treated fibrous substrate exhibits (i) a ratio of wet tensile strength to dry tensile strength ranging from about 1:5 to about 1:2 and (ii) an increase in a ratio of wet tensile strength to dry tensile strength of at least about 10%, as compared to when the fibrous substrate is treated with the functional promoter and without a surfactant. The invention also relates to a paper product made with such a system, and method for imparting wet strength to a paper product with the functional promoter.

Data supplied from the **esp@cenet** database - Worldwide